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PATENT SPECIFICATION

Application Date: Aug. 3, 1943. No. 12515/43.
Sept. 9, 1943. No. 14814/43.

569,740

One Complete Specification left (under Section 16 of the Patents and Designs Acts, 1907 to 1942): Sept. 4, 1944.

Specification Accepted: June 6, 1945.

PROVISIONAL SPECIFICATION
No. 12515 A.D. 1943

Improvements in or relating to Medicinal Preparations

I, DEWANCHAND VARMA, British Subject, of 82, Park Mansions, Knightsbridge, London, S.W.1, do hereby declare the nature of this invention to be as follows:—

This invention relates to medicinal preparations and is more particularly concerned with an ointment primarily intended for nasal application for the prevention or cure of the common cold or influenza or like ailments or disease.

According to the present invention the ointment is prepared by mixing an extract of camphor and extracts of cardamoms and neem with a smaller proportion of an extract of myrobolans in an atmosphere of steam into a base of ghee formed of buffalo milk. The proportion of the ghee in the finished ointment is preferably greater than 75% and the proportion of myrobolans is preferably less than 10%. Convenient percentages are approximately 87% ghee, 8% camphor with cardamoms and neem and 5% myrobolans.

The ghee, which may be described as a form of clarified butter, is prepared from the buffalo milk in the manner well-known in India, taking care to remove any acid content.

The various extracts are initially prepared in the usual manner by soaking the natural vegetable (preferably finely chopped) in water for a suitable time. The camphor used is conveniently that known in India as Kapur muchak and it is usually preferable for the camphor to predominate to some extent over the cardamoms and neem. The small variety of cardamoms, known in India as eláchi choti, is more satisfactory than the larger variety. The extract of neem is a bitter extract obtained from the leaves or fruit or from the bark of the neem tree, sometimes known as the margosa tree.

It is advantageous to employ mixed myrobolans, and a mixture of the three varieties known in India as harvá, baherá and anvalá gives especially satisfactory results.

It will be understood that the proportions and ingredients above described may be modified in various ways within the scope of the invention.

Dated the 3rd day of August, 1943.

PULLINGER & MALET,
Agents to the Applicant.

PROVISIONAL SPECIFICATION
No. 14814 A.D. 1943.

Improvements in or relating to Medicinal Preparations

I, DEWANCHAND VARMA, British Subject, of 82, Park Mansions, Knightsbridge, London, S.W.1, do hereby declare the nature of this invention to be as follows:—

This invention relates to medicinal preparations and more particularly to an ointment primarily intended for nasal application for the prevention or cure of the common cold or influenza or like ailments or diseases. The invention is especially concerned with modifications of the ointment forming the subject of the

present applicant's copending British Patent application No. 12515 of 1943.

Like the invention of such copending application, the ointment according to the present invention is prepared by mixing an extract of camphor and extracts of cardamoms and neem with a smaller proportion of an extract of myrobolans in an atmosphere of steam into a base formed mainly or wholly of animal fat. In the arrangement described in the copending application, the base consists of ghee formed of buffalo milk.

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According to one feature of the present invention the base consists of a mixture of castor oil and lard, in which the lard predominates. The relative proportions of 5 castor oil and lard may vary, but good results have been obtained with proportions in the neighbourhood of one part of castor oil to three parts of lard.

According to a further feature of the 10 present invention a small quantity of extract of fennel seed is added to the mixture above described.

According to yet another feature of the 15 invention a small quantity of perfume is added to the mixture. Primarily the

purpose of adding the perfume is to obscure the slight odour of the ointment, which may sometimes be found disagreeable, but by suitable choice of perfume it is possible to incorporate an additional 20 curative or alleviative effect. This in summer weather or in hot climates, it is preferable to introduce a perfume giving a cooling effect, as for example essence of sandalwood, whilst in winter or in cold 25 climates a perfume giving a heating effect, as for example musk, is preferable.

Dated this 9th day of September, 1943.

PULLINGER & MALET.

Agents for the Applicant.

COMPLETE SPECIFICATION

Improvements in or relating to Medicinal Preparations

I, DEWANCHAND VARMA, British Subject, of 82, Park Mansions, Knights- 30 bridge, London, S.W.1, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

35 This invention relates to medicinal preparations and is more particularly concerned with an ointment primarily intended for nasal application for the prevention or cure of the common cold or 40 influenza or like ailments or diseases.

According to the present invention the ointment is prepared by mixing extracts of cardamoms, neem and myrobolans into a base formed mainly or wholly of animal 45 fat in an atmosphere of steam and adding camphor to the mixture, the sum of the proportions of the camphor and of the extracts of cardamoms and neem being greater than that of the extract of myro- 50 bolans.

The fat base preferably comprises more than 75% of the mixture, and may consist of ghee formed of buffalo milk. The 55 ghee, which may be described as a form of clarified butter, is prepared from the buffalo milk in the manner well known in India, taking care to remove any acid content. Alternatively the base may consist of a mixture of castor oil and lard, in 60 which the lard predominates. The relative proportions of castor oil and lard may vary, but good results have been obtained with proportions in the neighbourhood of one part of castor oil to three parts of lard. 65 Convenient percentages in the mixture are approximately 87% fat base, 8% camphor with cardamoms and neem and 5% myrobolans.

The camphor used is conveniently that 70 known in India as Kapur muchak and it

is usually preferable for the camphor to predominate over the cardamoms and neem. The small variety of cardamoms, known in India as eláchi chhoti (*Elettaria cardamomum minuscula*—Burkhill), is 75 more satisfactory than the larger variety. The extract of neem is a bitter extract obtained from the leaves or fruit or bark, especially from the leaves, of the neem tree, sometimes known as the margosa tree 80 (*Melia azadirachta*—Linnaeus).

It is advantageous to employ mixed myrobolans, and a mixture of the three varieties known in India as harrar (black 85 chebulic myrobolans), baherá (beleric myrobolans), and anvalá (emblic myrobolans) gives especially satisfactory results.

The various extracts are initially prepared in the usual manner by soaking the 90 natural vegetable (preferably finely chopped) in just enough water for the purpose, the soaking being continued until the material begins to ferment and a white or grey mould develops. 95

Following this, the extracts, still containing the solid matter, are mixed together and boiled, and the fat base pre- 100 heated to say, 120° C., is poured on to the boiling mixture. The camphor is added after the remaining ingredients while the mixture is still warm, and the whole is macerated together for three or four hours. The resultant mixture should be carefully 105 filtered through a fine cloth and filled while still liquid into the soft metal tubes in which it is to be marketed, the setting into the form of an ointment taking place in the tube itself.

It is sometimes advantageous to add a 110 small quantity of extract of fennel fruit (*Foeniculum capillaceum* or *Foeniculum vulgare*).

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A small quantity of perfume may also be added to the mixture. Primarily the purpose of adding the perfume is to obscure the slight odour of the ointment, which may sometimes be found disagreeable, but by suitable choice of perfume it is possible to incorporate an additional curative or alleviative effect. Thus in summer weather or in hot climates, it is preferable to introduce a perfume having a cooling effect, as for example oil of sandalwood, whilst in winter or in cold climates a perfume giving a heating effect, as for example musk, is preferable.

It is to be understood that the ingredients and proportions above described may be modified in various ways within the scope of the invention.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A method of preping medicinal ointment, according to which extracts of cardamoms, neem and myrobolans are mixed into a base formed mainly or wholly of animal fat in an atmosphere of steam, and camphor is added to the mixture, the sum of the proportions of the camphor and of the extracts of cardamoms and neem being greater than that of the extract of myrobolans.

2. A method as claimed in Claim 1, in

which the fat base comprises ghee of buffalo milk.

3. A method as claimed in Claim 1, in which the fat base comprises a mixture of castor oil and lard, wherein the lard predominates.

4. A method as claimed in any one of Claims 1—3, in which the fat base comprises more than 75% of the mixture.

5. A method as claimed in Claim 4, in which the ingredients are mixed approximately in the proportions of 87% fat base, 8% camphor with cardamoms and neem and 5% myrobolans.

6. A method as claimed in any one of Claims 1—5, in which the myrobolans used comprises a mixture of black chebulic myrobolans, baleric myrobolans and emblic myrobolans.

7. A method as claimed in any one of Claims 1—6, in which a small quantity of extract of fennel fruit is added to the mixture.

8. A method as claimed in any one of Claims 1—7, in which a perfume giving either a heating or a cooling effect is added to the mixture.

9. A medicinal ointment when prepared according to the method claimed in any one of the preceding claims.

Dated this 4th day of September, 1944.

PULLINGER & MALET,
Agents for the Applicant.